

A Work Project, presented as part of the requirements for the Award of a Master's degree in Finance from the Nova School of Business and Economics.

How can Fintech serve the unbanked in Sub-Saharan Africa?: How is Fintech shaping the Financial Industry business models?

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Work project carried out under the supervision of: Professor Miguel Pita

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How can fintech serve the unbanked in Sub-Saharan Africa?



How is the Fintech market developing and what do we expect for the future?

- The market gained traction *circa* 2005 and the United States of America (USA) are it's biggest geography
- It is expected to triple in size and we believe there will be a *survival of the fittest* phase, with players already financed and with positive cash-flows in the forefront



How is Fintech shaping the financial industry business models?

- Fintech complements banks' strengths by meeting new digital customer preferences
- Synergies between incumbents and new players can lower the cost to serve the unbanked



What are the opportunities for Fintech in Sub-Saharan Africa (SSA)?

- Sub-Saharan Africa is a land of opportunities for Fintech where it can have a positive impact in financial inclusion
- Only a restricted lot of countries in Sub-Saharan Africa have the required resources to make Fintechs thrive in the near future



How is Fintech creating value in SSA?

- Mobile network operators's (MNOs) large customer base allows them to lead the transition from informal finance to formal financial services
- Network effects accelerate financial inclusion: financial services finance technology and technology can deliver financial services faster



Challenges and Recommendations

- Countries would benefit if government focused on strengthening education, improving infrastructures, regulations and creating conditions for investment
- Fintechs would gain from focusing on customer-product fit and building partnerships, while improving country knowledge and decision making

Fintech can leverage the widespread smartphone adoption to offer financial services in Africa.
However, governments must reduce barriers to improve financial inclusion through economic digitalization.

Executive Summary



2.1 Fintech slice of banks

- Fintech has taken 16% of retail banking revenues
- Revenue share is sustained by 64% adoption rate, more predominant on younger ages



2.2 Main Areas Under Disruption

- Fintech model is more prone to meet customer's increasingly digital preferences, especially on payments, lending and saving
- More agile IT systems allow fintechs to take advantage of liberalized data access



2.3 Fintegration

- Partnerships reduce costs for both fintechs and banks, allowing an easier data fetching and to meet customer preferences
- Product creation and implementation can improve if both companies cooperate closer

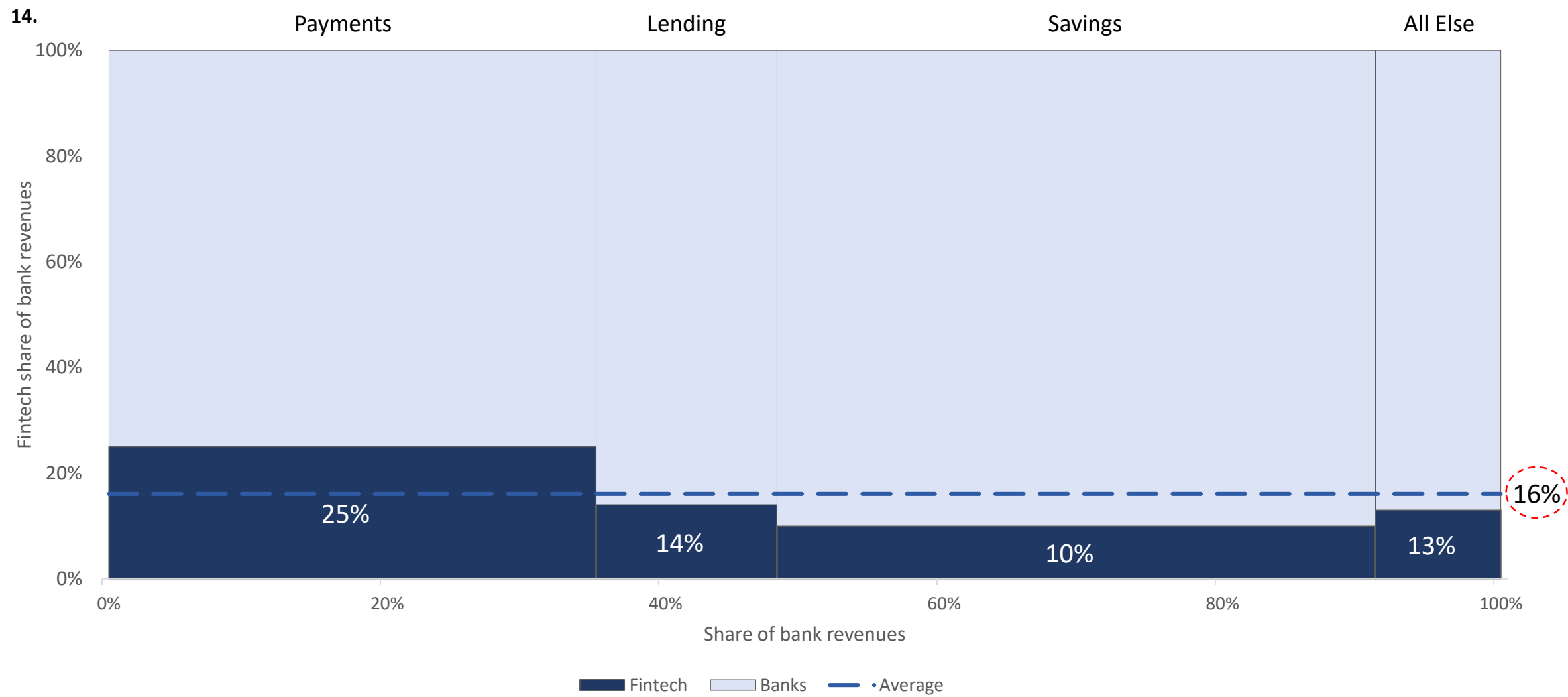


2.4 Serving the Unbanked

- Partnerships' improvements can further lower the cost to serve clients
- Reaching scale is important from a sustainability perspective

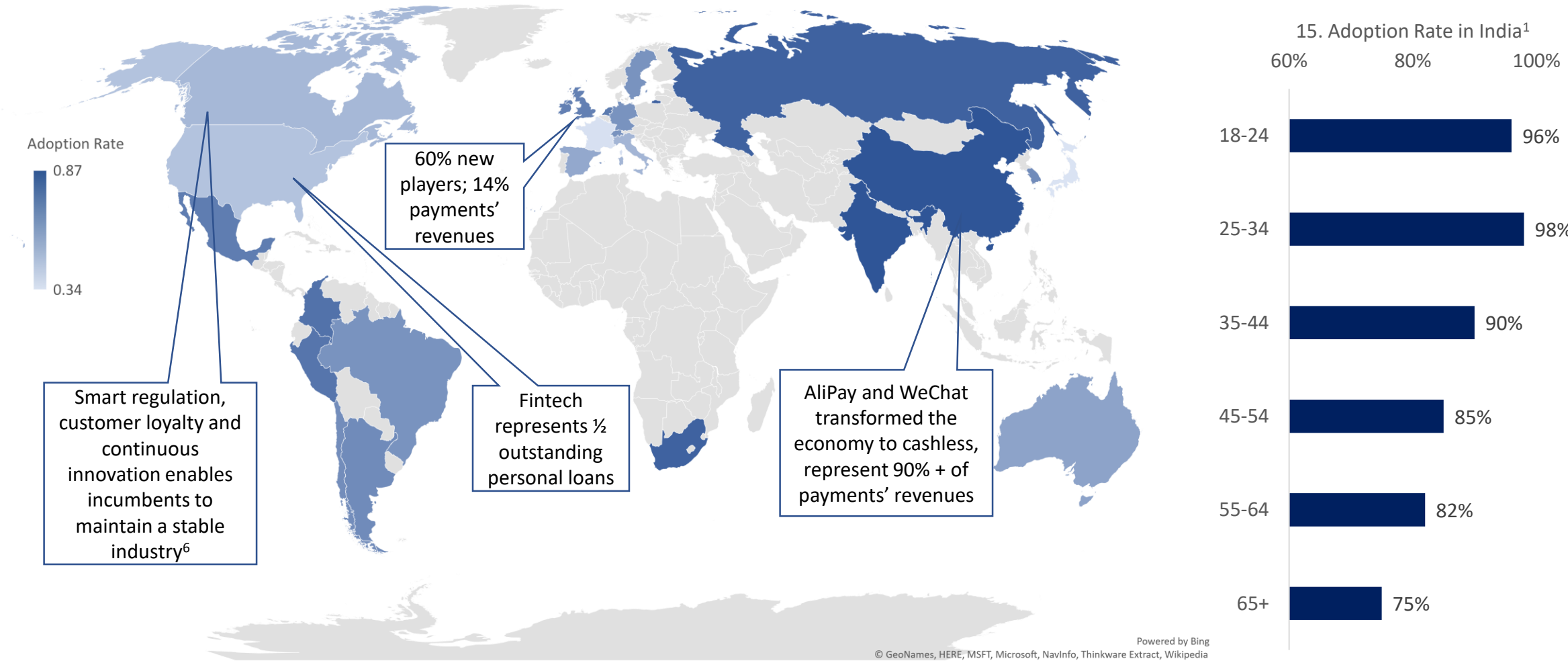
Keywords of module 2: agile, disruption, partnerships, profitability

Fintech has already taken 16% of the \$ 2 tn retail banking revenues
Payments area leads it, followed by lending and savings/asset management



Sources: 1. Global Fintech Adoption Index. EY, 2019.; group analysis | 2. "Alternative Financing Landscape." The Kaplen Group, 2015. | 3. The Fight for the Customer: 2015 Global Banking Review. McKinsey, 2015.
4. Global Banking Report 2016 . McKinsey, 2015. 5. Global Retail Banking 2019: The Race for Relevance and Scale . BCG, 2019.

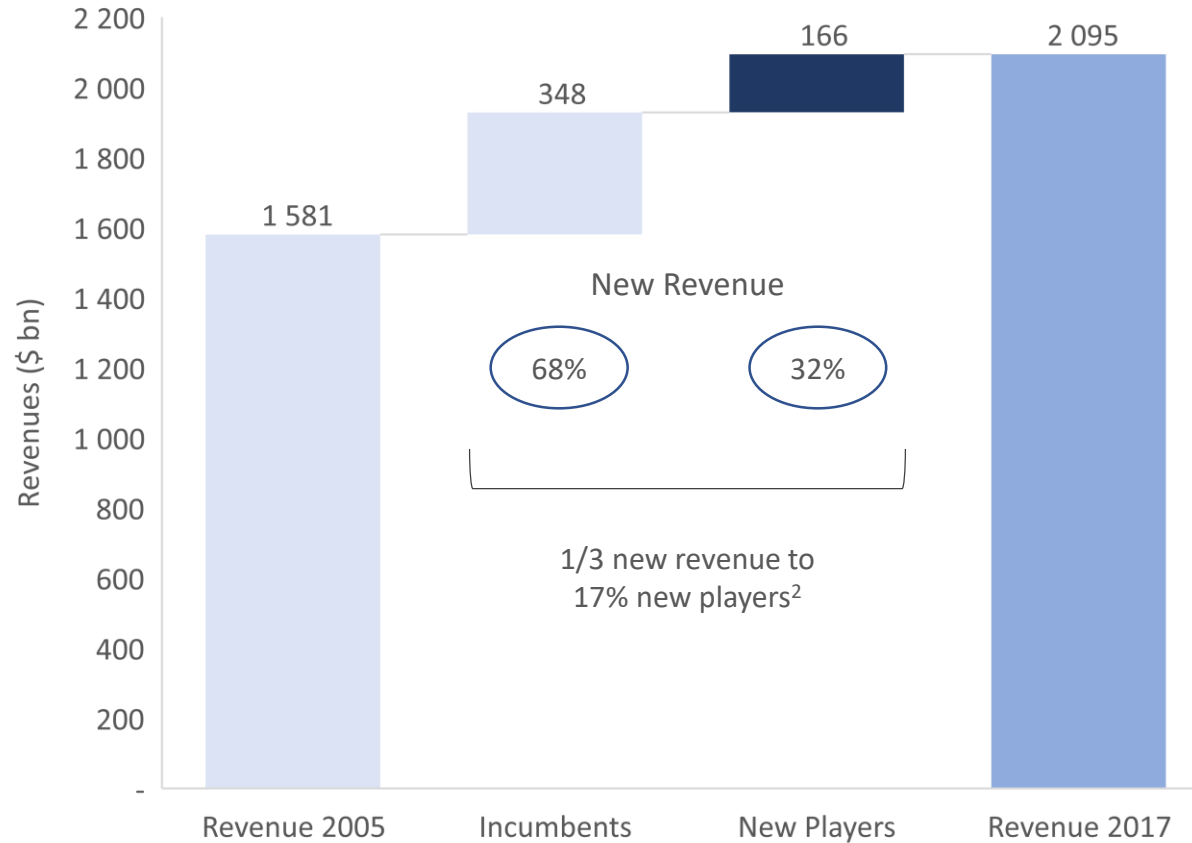
Emerging markets (EMs) lead fintech adoption, reaching 64% worldwide¹. Younger generations explain the sustained revenue change to digital



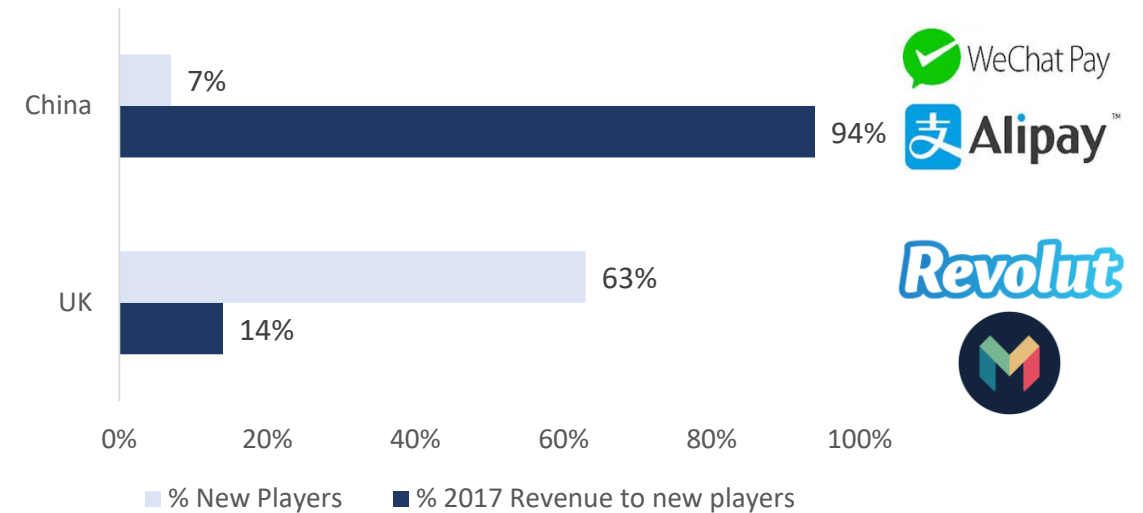
A 64% adoption rate could potentially inch higher the 16% market share already taken from banks

New players on EMs lead the disruption of the ever-growing payments sector

16. New players represent 8% revenues⁷ of a market expected to reach 2.1tn globally by 2022⁹



17. Grabbing market share on EMs is easier due to regulation push and no infrastructure

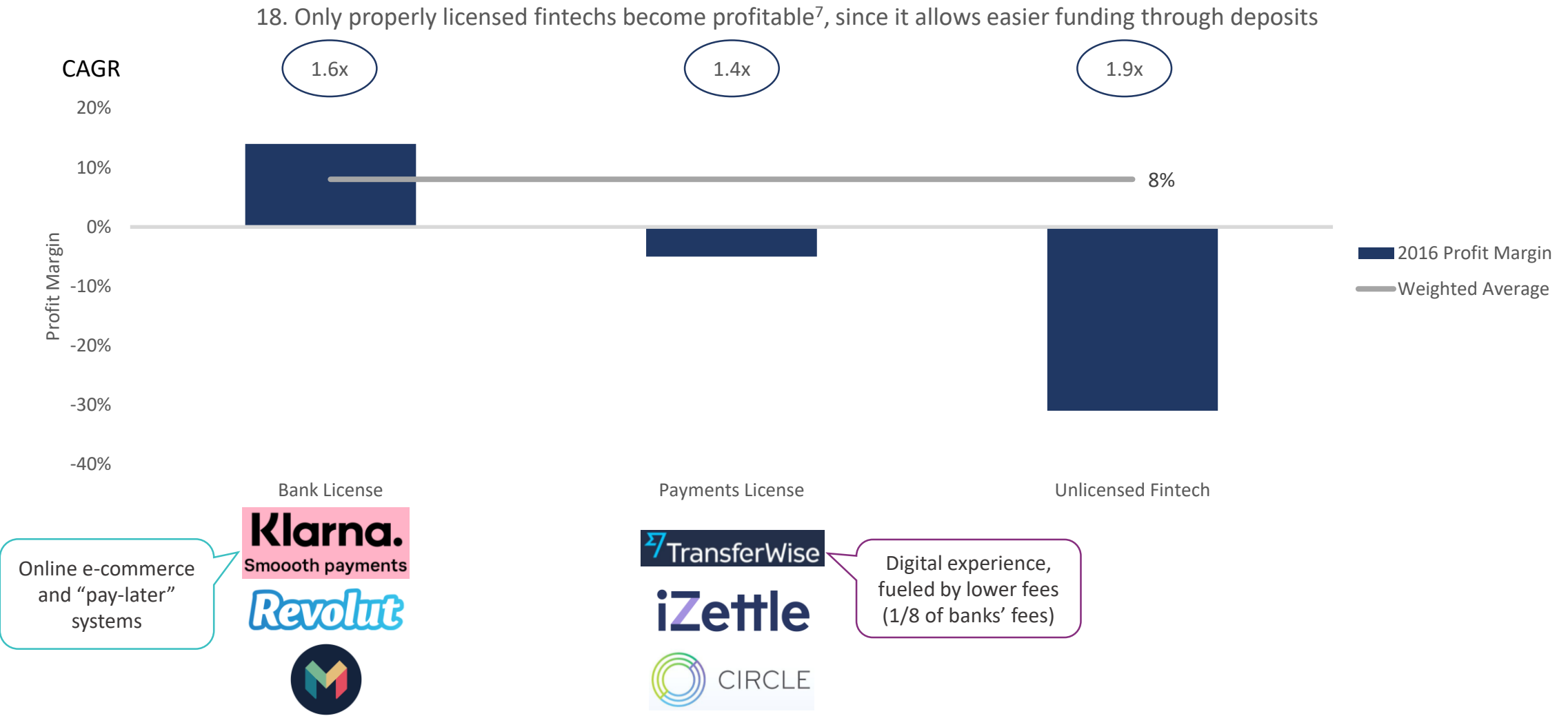


- China's government push for digital has enabled the shift to a **cashless economy** on a single generation
- UK's **new regulation**, FCA and CCA support enabled the rise of 63% new players, where 15+ fintech have already acquired a banking license⁸

Fintech is positioned to seize the expected market growth on EMs, provided the right regulation is in place

2.2 MAIN AREAS UNDER DISRUPTION (2/10)

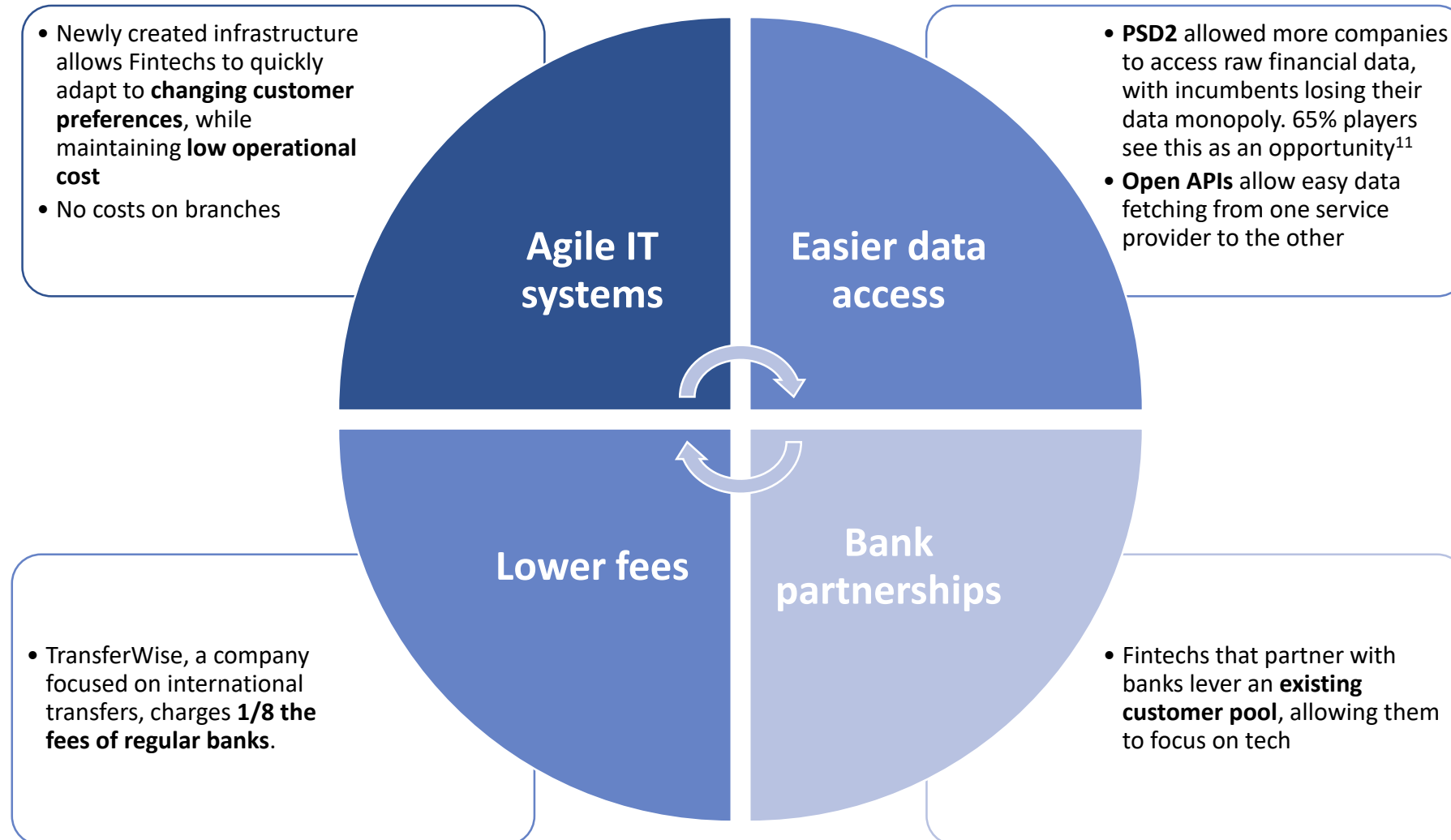
However, becoming profitable is a challenge that only fintechs with a banking license seem to overcome



Sources: 7. *Star Shifting: Rapid Evolution Required*. Winning in the Digital Economy. Accenture, 2018. | 10. Tinnila, Markku. "Impact of Future Trends on Banking Services." *Journal of Internet Banking and Commerce* 17 (2012).

2.2 MAIN AREAS UNDER DISRUPTION (3/10)

Great tech platforms and a disruptor-friendly framework are key for fintech success, which could be undermined by costly customer acquisition strategies

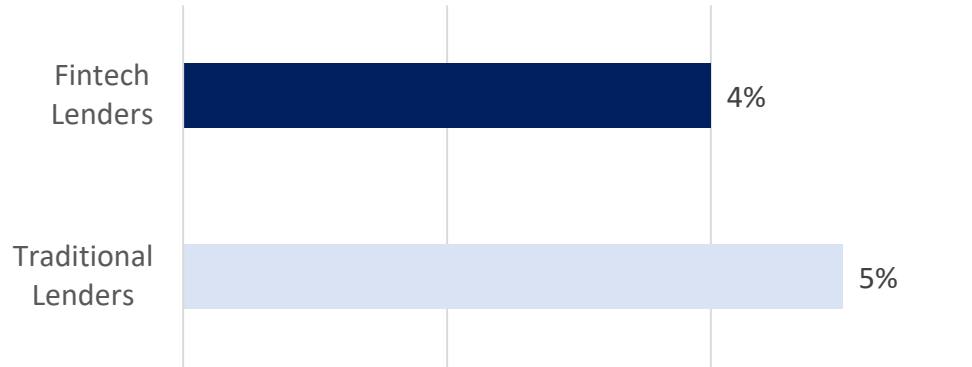


2.2 MAIN AREAS UNDER DISRUPTION (4/10)

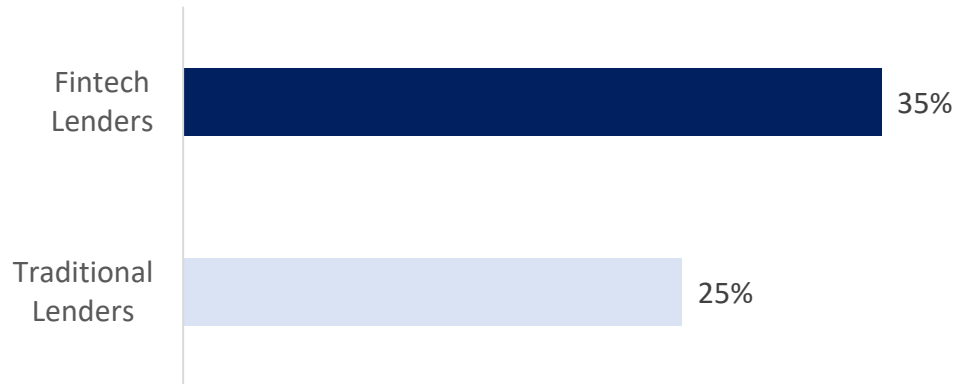
Fintech is disrupting lending through inclusiveness

However, there is untapped market potential

Fintech helps reducing financial discrimination

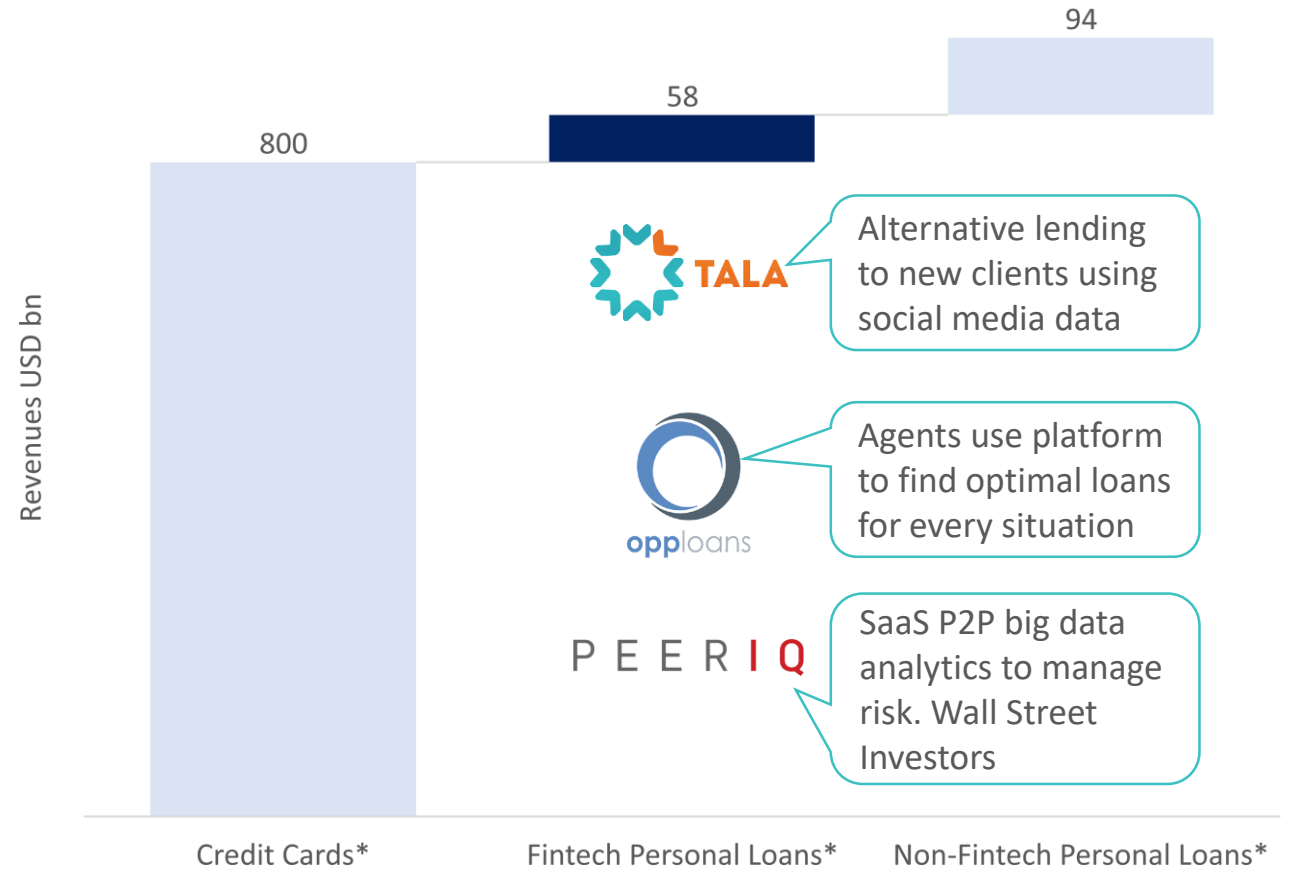


19. Likelihood excess that Afro-americans and Hispanics will be rejected a mortgage¹²



20. % of USA customers under 30¹³

21. Despite representing >1/3 of outstanding personal loans¹⁴ in USA, Fintech has not yet covered the market on the credit cards arena



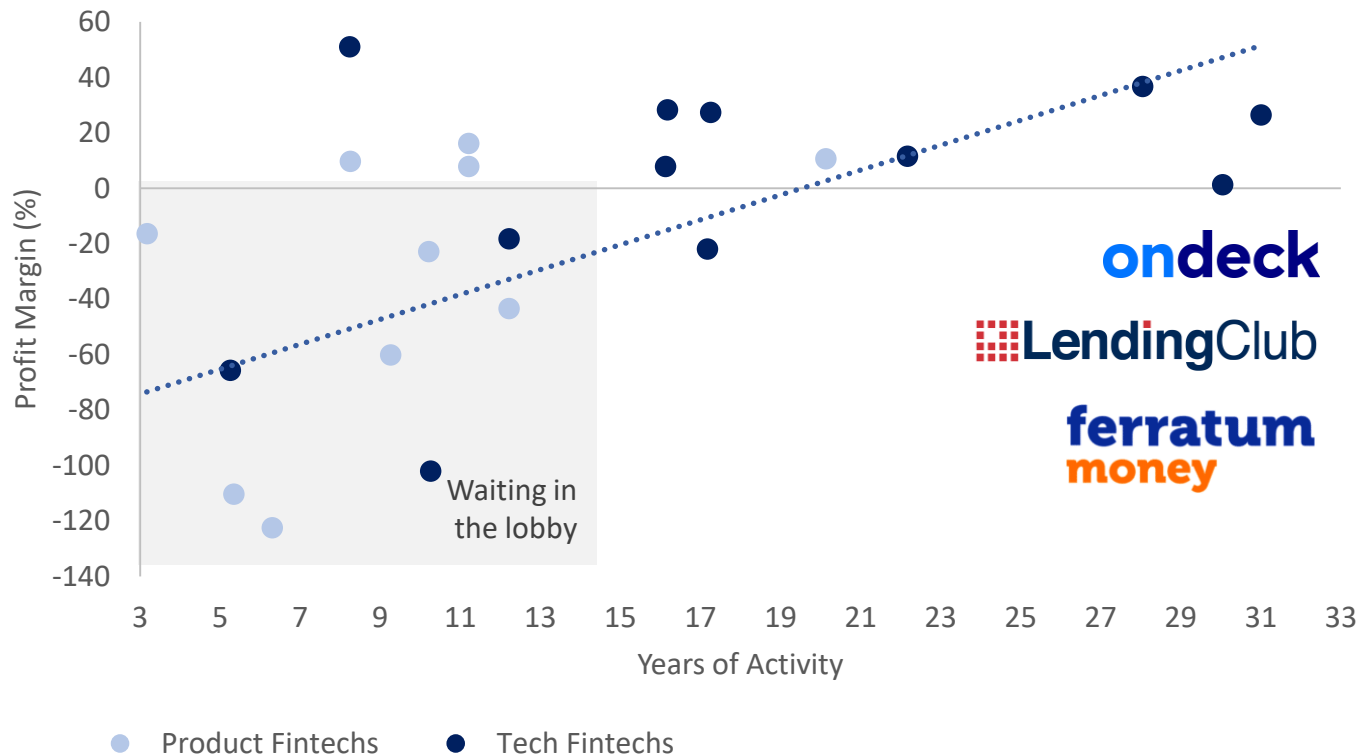
*2017 USA Revenue

2.2 MAIN AREAS UNDER DISRUPTION (5/10)

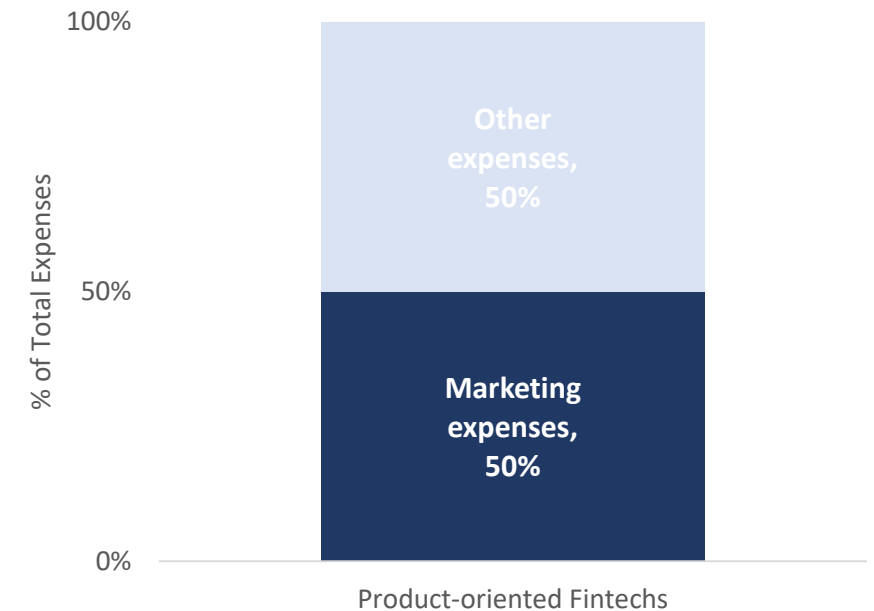
Tech-oriented fintechs are more profitable than product-oriented ones

However, companies take 8-14 years to become profitable

22. Tech providers are more profitable than product providers, taking 8-14 years to become profitable¹⁵



23. Marketing expenses on aggressive customer acquisition strategies slash product-oriented fintechs' profits¹⁵



However, growing globally is difficult due to **unharmonized legislation** through several countries²

Providing services for incumbents allows fintechs to be more profitable, while also doing so earlier

Great tech platforms partnering with banks reduce costly customer acquisition strategies and provide alternative credit scoring models

Agile IT systems

- Fintech companies are better prepared to adapt to fast-changing customer preferences
- Having **no IT legacy** means they can provide services at a lower cost

Fully digital customer journey

- From leads to origination and payment, fintechs can provide a fully **digital end-to-end experience** to their customers
- New data can be gathered from fully digital companies

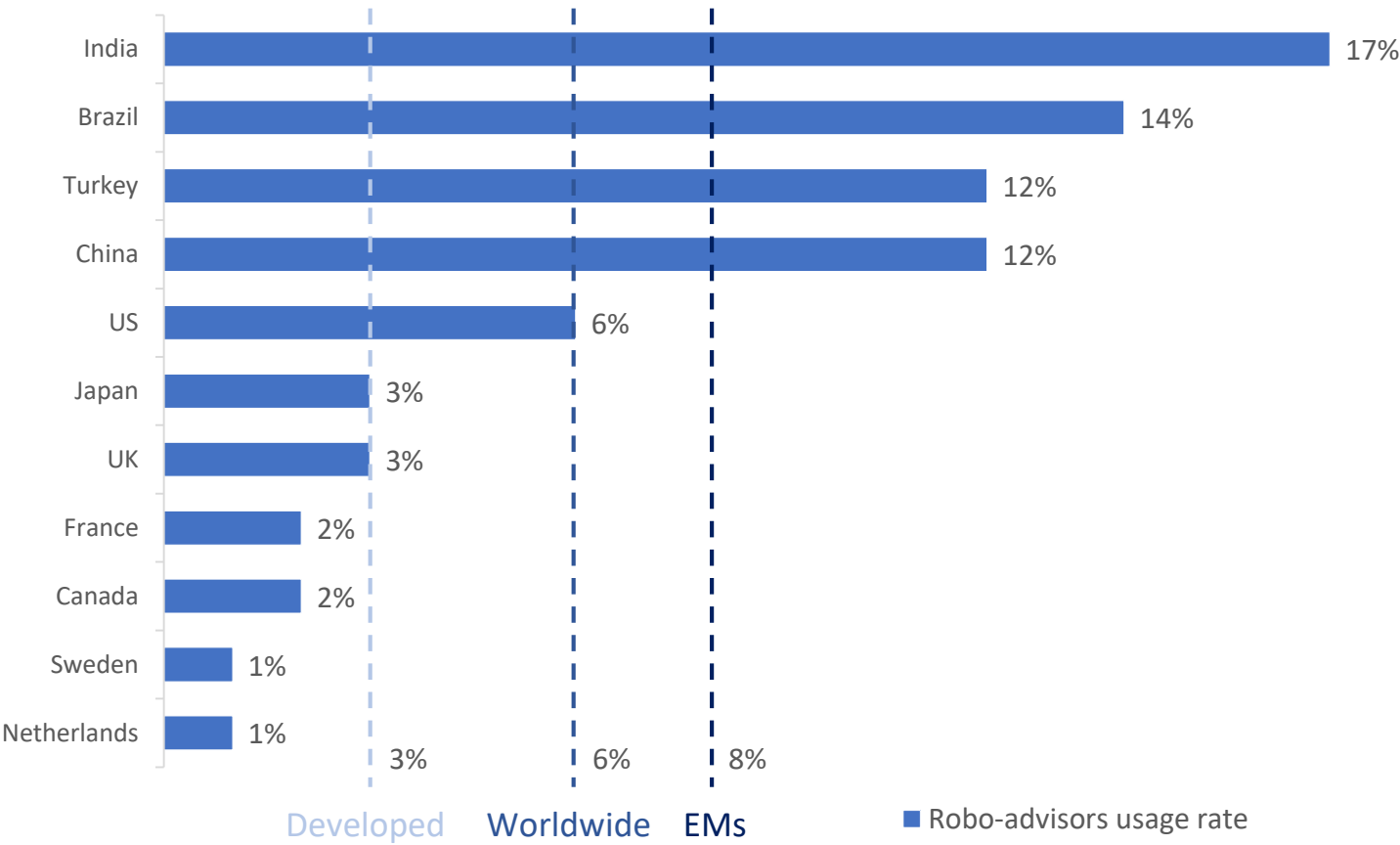
Comprehensive alternative credit scoring

- Data acquired can be used to analyse customers **not served by banks**
- Lending as a Service (**Laas**) partnerships with banks are the most profitable activity, making use of banks' existing clients pool

Robo-advisors play a significant role on the savings landscape disruption

More than USD 900bn AUM globally, primarily adopted on EMs

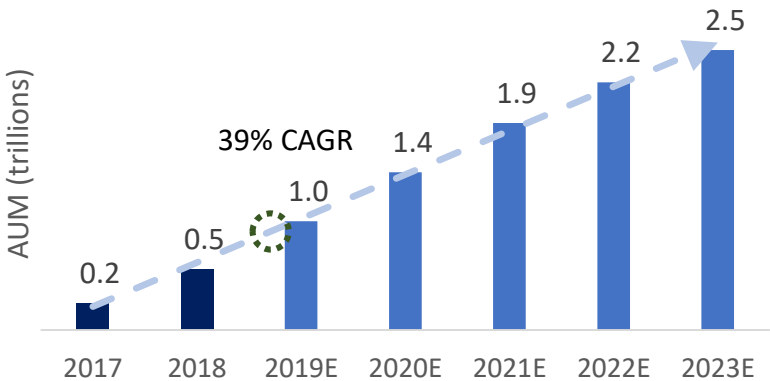
24. EMs lead robot-advisor usage rate, which reaches 6% worldwide¹⁷



4/10 affluent customers (Net Worth \$100 k - \$1 mn) that change primary wealth management firm move to a digitally led one¹⁸



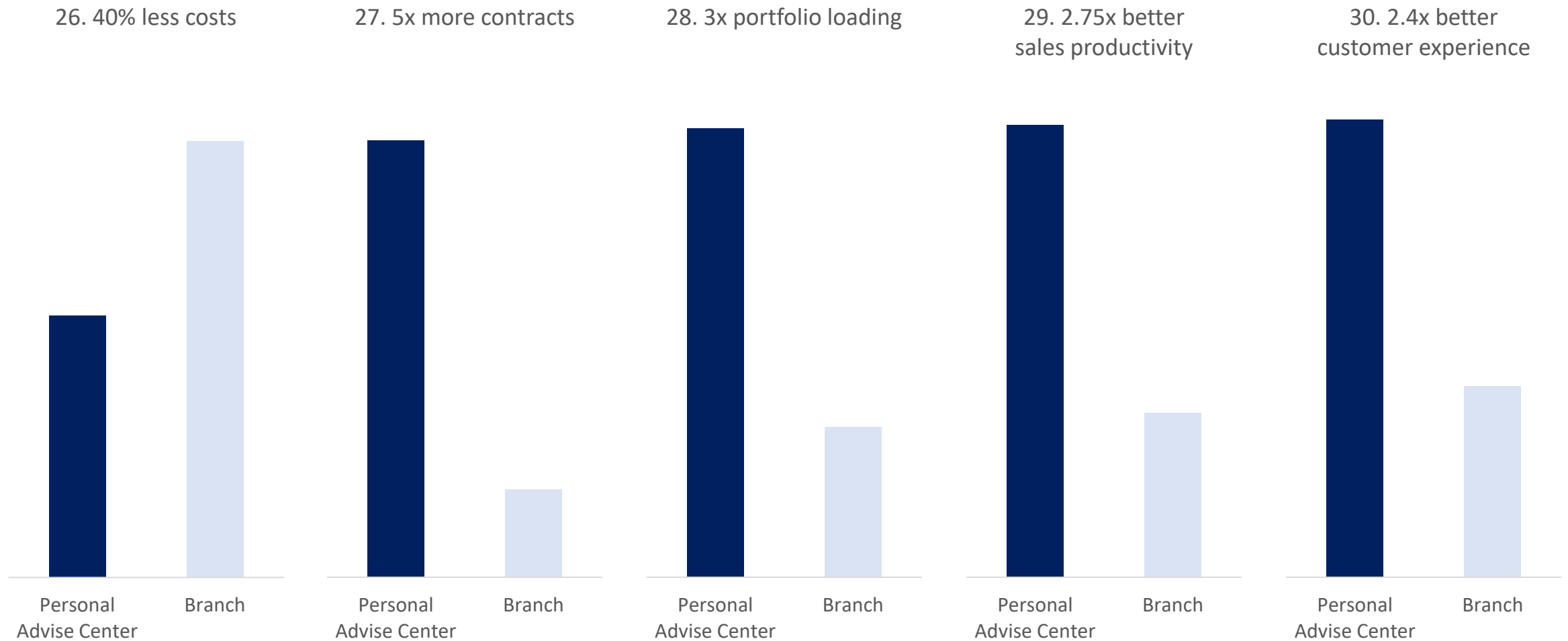
25. Robo-advisors set to reach \$ 2.5 tn AUM in 2023¹⁹



Digital platforms enable financial institutions to reach the **previously underserved affluent customers**

Sources: 17. *Global Banks: Is FinTech a Threat or an Opportunity?* Q-Series Report. UBS Limited, 2016. | 18. *The Virtual Financial Advisor: Delivering Personalized Advice in the Digital Age*. McKinsey, 2015.
19. *Personal Finance Report 2019*. Statista, 2019.

Virtual financial advisors improve firms' economics and customer experience



Source: 18. *The Virtual Financial Advisor: Delivering Personalized Advice in the Digital Age*. McKinsey, 2015.

Centralization and scale drastically improve firms' efficiency

Higher efficiency

- Advisors do **not “lose time”** on trips, allowing for a larger portfolio loading
- **Centralized knowledge** makes training easier
- Poach client-advisor risk mitigated

Full availability

- Clients can easily get **advice anywhere**, anytime
- Access to a larger pool of knowledge through centralized knowledge hubs
- Standardization of the advisory process

Clients' needs met

- Improved **use of digital**, more available channels
- **Reduction in fees** due to better cost-efficiency
- Larger expertise access



Robo-advisors are one of the most prominent technologies, designed to provide more personalized 24/7 service to a greater number of people with low fees. However, the **human element** is still important in investment services²⁰

Capitalizing digital opportunities is “easy” and profitable, but the human element seen on banks is still important

Fintech strengths allowed its current disruption pace

However, banks have relevant expertise that help it become profitable sooner

Fintechs have more agile IT systems to meet customer demands, providing them with a **better user experience** and **eliminating costs** of branch operations



Payments

Much success owed to **lower fees** that slash profit margins

Non-licensed fintechs find it hard to be profitable (only the ones with a bank-license are so)



Lending

Costly customer acquisition strategies slash fintechs' profitability

Producing platforms for incumbents yields better results



Savings

Virtual advisors improve both the **cost efficiency** and **access to expertise**

Human input is still highly-valued, demanding the **need for human experience** seen on banks

Fintech disruptors have started providing services for incumbents

Competition

- Fintechs started by disrupting important areas of banks' revenues
- Drastic evolution in the Business Model of Banking, from one bank providing all services to a **group of players providing a variety of services**²¹

Profitability challenge

- Aggressive customer acquisition strategies and lower fees allowed fintechs to thrive, but **lowered their profitability**
- Banks' loss of scale and macroeconomic conjecture also affected their profitability

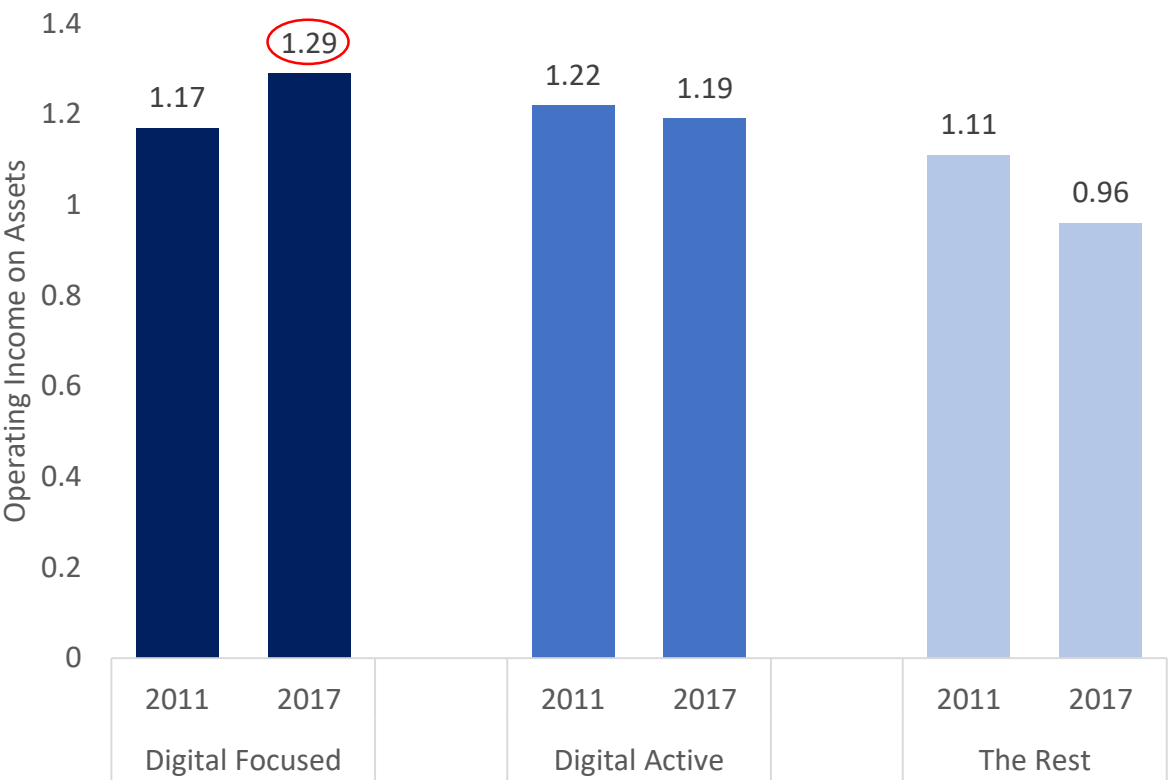
Cooperation

- Fintech operated banks are comparatively better at **managing raw information that can be digitalized**²²
- Only 42% of payment providers on Europe report product development without involvement of external providers¹¹
- Banks that moved to digital since 2011 have gained an edge when comparing income on assets

Banks moving to digital have seen profit margin efficiency improvements

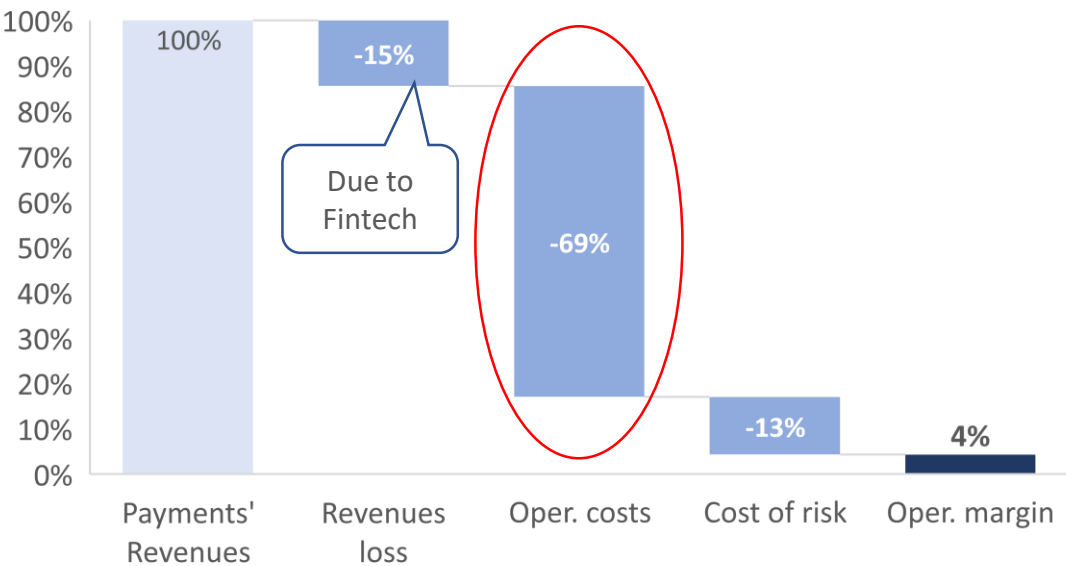
Overcoming hardware expenses represents the biggest challenge

31. Digital focused banks are the most profitable



6.5/10 banks report already being close to or **below the cost level** of payments' revenues²³

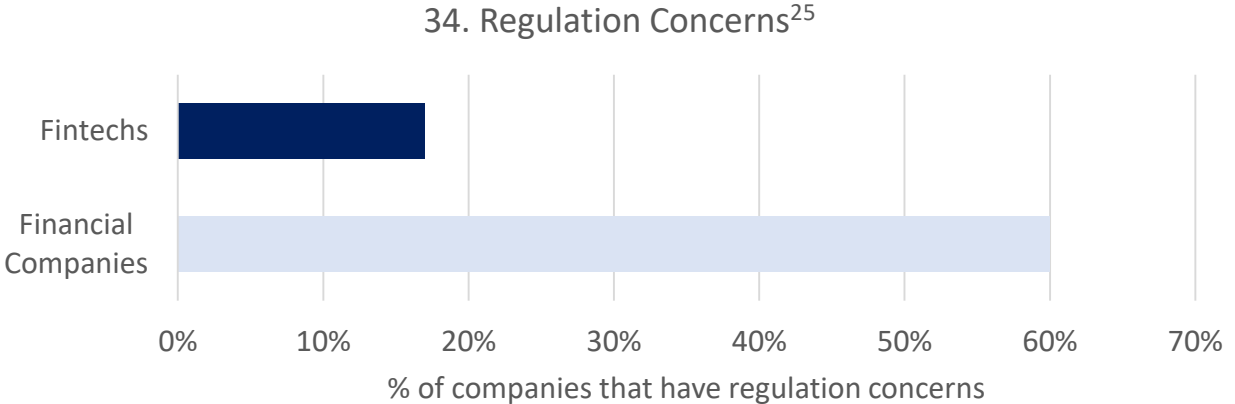
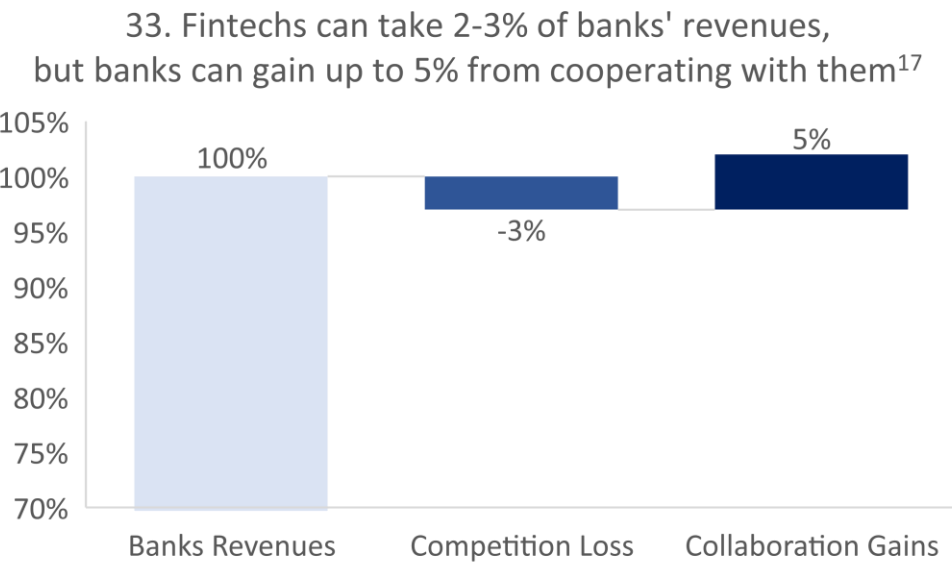
32. On 2025, banks' operating expenses and high competition is expected to still slash payments' profitability²⁴



Using fintech platforms can lower banks' costs while protecting revenues, powering their move to digital

Better partnerships expected to bring revenue increase to banks

Banks find clients effortlessly, fintechs are better at product development

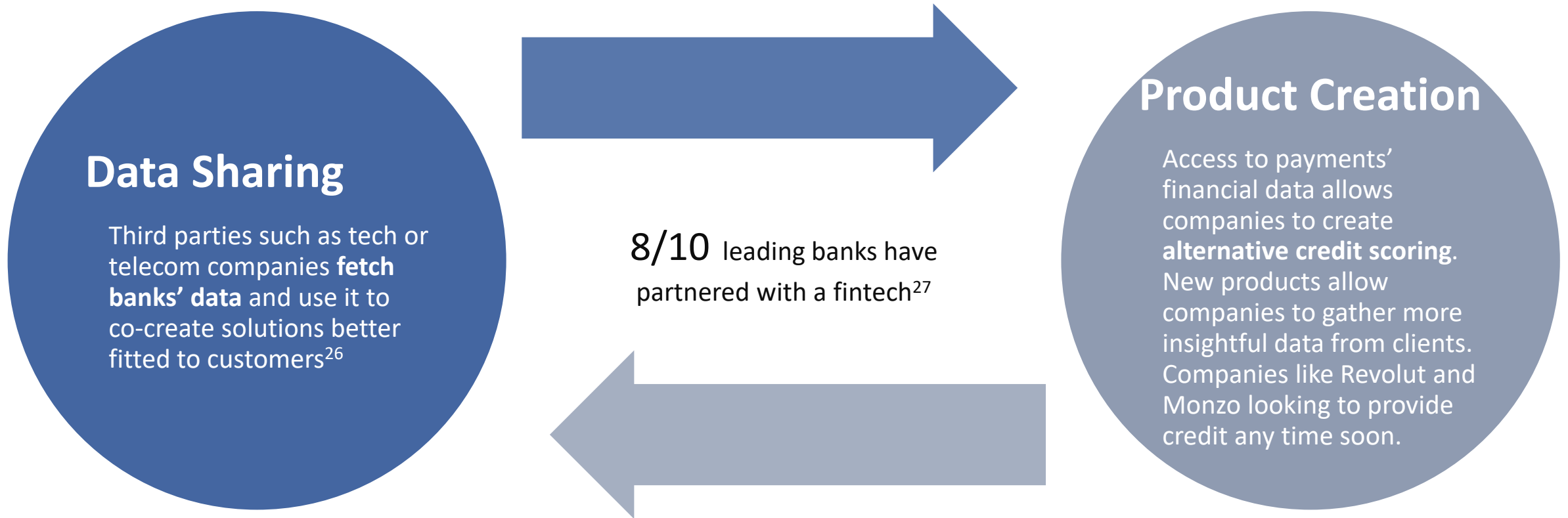


PSD2 and several regulatory sandboxes favor Fintech’s agile data handling, since they do not need to comply with traditional institutions tighter regulation

Phases of onboarding process		Banks	Fintech
	Prospecting	Positive	Negative
	Proof of Concept	Negative	Positive
	Procurement	Neutral	Neutral
	Implementation	Negative	Neutral

Integrating product creation between banks and fintech may reduce time-to-market, with regulation helping fintech

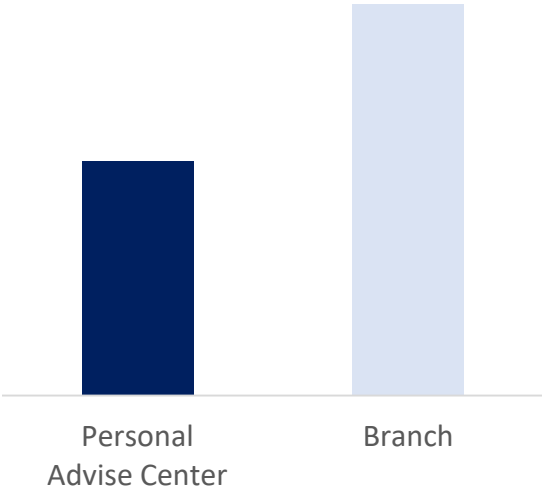
Fintechs and banks are joining forces to embrace customers' shift to digital



2.4 SERVING THE UNBANKED

Fintechs' inherent low-cost structure together with banks' scale can serve the unbanked

35. 40% less costs on both savings and payments^{18,29}



Mobile banking does not require the same investment in branch infrastructure as traditional banks and agent banking serves low-population density areas at a significantly lower cost than traditional banks.²⁸

36. However, fintechs lower cost to serve is only profitable when scalable³

